

U.S. Naval Base, Pearl Harbor, Berthing Wharf S1  
(U.S. Naval Base, Pearl Harbor, Naval Submarine Base)  
South Waterfront Road Along North Side of Quarry Lock  
Pearl Harbor  
Honolulu County  
Hawaii

HAER  
HI  
2-PEHA,  
72-

**PHOTOGRAPHS**

**WRITTEN HISTORICAL AND DESCRIPTIVE DATA**

**Historic American Engineering Record  
National Park Service  
Department of the Interior  
San Francisco, California**

HISTORIC AMERICAN ENGINEERING RECORD

U.S. Naval Base, Pearl Harbor, Berthing Wharf S1  
(U.S. Naval Base, Pearl Harbor, Naval Submarine Base)  
HAER No. HI-38

HAER  
HI  
2-PEHA  
72-

Location: Naval Submarine Base, South Waterfront Road Along North  
Side of Quarry Lock, Pearl Harbor, City and County of  
Honolulu, Hawaii

USGS Pearl Harbor Quadrangle, Hawaii  
7.5 minutes series (orthophotoquad)  
Universal Transverse Mercator coordinates  
4.609480.2362040

Date of Construction: 1942

Present Owner: Naval Submarine Base, Pearl Harbor, Hawaii

Present Use: Berthing and repair of submarines

Significance: The U.S. Naval Base, Pearl Harbor was designated as a  
National Historic Landmark in 1964, due to the crucial role it  
played in the Nation's defense during the twentieth century  
and the calamitous events which occurred on December 7,  
1941. As a Category 3 structure, it is determined that Wharf  
S1 functioned as a part of the Pearl Harbor Naval Base, and  
is of minor importance to the historic character of the  
National Landmark.

Report Prepared By: Sherwin Chang, Structural Engineer  
Navy Public Works Center, Pearl Harbor  
Project Development Branch  
Pearl Harbor, Hawaii 96860-5470

Date: March 1997

## **I. Description**

Wharf S1 is a 46 feet wide by 1,085 feet long reinforced concrete wharf structure. The wharf was constructed with a concrete deck supported on a concrete bent and edge beam system. The bents are at approximately 10 feet on center and are supported by concrete/composite piles. The fender system consists of a row of timber and concrete piles with portable floating camels at timber piles and pneumatic fenders at concrete piles.

## **II. Historical Information**

Wharf S1 was constructed in 1942, as a submarine berthing wharf, at a cost of \$845,718. In 1952, a bulkhead made of 18 inch wide concrete sheet pile sections was constructed behind the wharf to retain earth and pavement. In 1970, steel booms to support shore power cables were installed. In 1991, prestressed concrete fender piles with a removable steel backboard system and pneumatic fenders were installed at the east berth (S1A) of Wharf S1. Presently, Wharf S1 is utilized as waterfront berthing to support maintenance and repair operations for homeported and transient submarines.

## **III. Sources**

NAVFAC Drawings No. 07187 dated 5/19/41, 07188 dated 7/3/41, and 07189 dated 6/17/41

Public Works Center, Pearl Harbor Drawings No. 547707 through 547713 dated 1/5/52

Public Works Center, Pearl Harbor Drawing No. 1104323 dated 12/69

Public Works Center, Pearl Harbor Drawings No. 7480383 through 7480388 dated 11/90

NAVFAC P-164, Detailed Inventory of Naval Shore Facilities

U.S. Naval Base, Pearl Harbor, National Historic Landmark, Historic Preservation Plan



